

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 214 AND CAMERON GROVE BOULEVARD IN PRINCE GEORGE'S COUNTY. MD 214 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH EXCLUSIVE-PERMISSIVE LEFT TURN PHASES FOR EASTBOUND AND WESTBOUND MD 214. AN ALTERNATE PEDESTRIAN PHASE WILL BE ADDED ACROSS THE WEST LEG OF MD 214.

CONTROLLER REQUIREMENTS

A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH THREE, 4-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS WILL BE INSTALLED IN A BASE MOUNTED CABINET.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 & 5			R			R	R	R	R	R	R	DW	DW	
1 & 5 CHANGE	PHASE 1 & 5 CHANGE MAY CHANGE TO PHASE 1 & 6, 2 & 5 OR 2 & 6													
PHASE 1 & 6			G	R	R	R	R	R	R	R	R	DW	DW	
1 & 6 CHANGE			G	R	R	R	R	R	R	R	R	DW	DW	
PHASE 2 & 5	R	R	R			G	R	R	R	R	R	DW	DW	
2 & 5 CHANGE	R	R	R			G	R	R	R	R	R	DW	DW	
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	DW	DW	
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	DW	DW	
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	
PHASE 4 ALT. & 8	R	R	R	R	R	R	G	G	G	G	G	WK	WK	
PED CLEAR	R	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW	
4 ALT. & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	DARK	DARK	

EQUIPMENT LIST "A"

A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

CONTACT PERSONS FOR DISTRICT 3 ARE AS FOLLOWS:

MR. MAJID SHAKIB ASSISTANT DISTRICT ENGINEER - TRAFFIC (301) 513-7358	MR. RANDY BROWN ASSISTANT DISTRICT ENGINEER - MAINTENANCE (301) 513-7304
MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630	MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS (410) 787-7676
MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631	MS. DARLENE EIDE SUPPLY OFFICE IV (SIGNAL SHOP WAREHOUSE) (410) 787-7668
MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652	

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	LS	MAINTENANCE OF TRAFFIC
2002	6 EA	TEST PIT EXCAVATION
5004	260 LF	FURNISH AND INSTALL 12 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
5005	170 LF	FURNISH AND INSTALL 24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
6001	40 LF	FURNISH AND INSTALL DEPRESSED CURB AND GUTTER
6004	40 SF	FURNISH AND INSTALL 4 FT. CONCRETE SIDEWALK
8010	4 EA	FURNISH AND INSTALL 12 IN. PEDESTRIAN SIGNAL HEAD SECTION
8011	32 EA	FURNISH AND INSTALL 12 IN. VEHICULAR SIGNAL HEAD SECTION
8013	2 EA	FURNISH AND INSTALL 15 FT. BRACKET ARM FOR SIGNAL STRUCTURE
8014	2 EA	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE WITH PHOTOCELL
8019	12 EA	FURNISH AND INSTALL 8 IN. VEHICULAR SIGNAL HEAD SECTION
8020	1 EA	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT FOR SIGNAL

EQUIPMENT LIST "B" CONTINUED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8028	4 EA	FURNISH AND INSTALL MICRO PROBE SET 1000 FT. LEAD-IN
8030	1 EA	FURNISH AND INSTALL PEDESTAL POLE ANY SIZE
8032	3 EA	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND SIGN
8035	1 EA	FURNISH AND INSTALL MAST ARM POLE AND TWIN 50 FT./70 FT. MAST ARMS
8051	50 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8052	250 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8053	20 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8057	18 CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8059	236 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4" X 6"
8060	920 LF	FURNISH AND INSTALL NO. 6 A.W.G. STRANDED BARE COPPER GROUND WIRE
8062	60 LF	FURNISH AND INSTALL 1 IN. GALVANIZED DETECTOR WIRE SLEEVE
8068	25 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8071	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR NO. 4 A.W.G.-THHN/THWN
8072	3 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8076	1960 LF	FURNISH AND INSTALL 12-PAIR COMMUNICATION CABLE, JELLY-FILLED (UNDERGROUND)
8080	5 EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER BY 10 FT. LENGTH
8081	860 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
8082	670 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 14 A.W.G.)
8083	470 LF	FURNISH AND INSTALL ELECTRICAL CABLE 3-CONDUCTOR (NO. 14 A.W.G.)
8084	100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8085	2300 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8086	420 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.)
8087	2280 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8088	680 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
8093	1 EA	FURNISH AND INSTALL CONTROLLER AND CABINET BASE MOUNT (SIZE 6)
---	3 EA	FURNISH AND INSTALL LOOP DETECTOR AMPLIFIER
---	4 EA	FURNISH AND INSTALL W3-3 SIGN (48" X 48") WITH "NEW" PANEL SIGN (30" X 30") AND FLAGS
---	2 EA	FURNISH AND INSTALL W3-3 SIGN (36" X 36") WITH "NEW" PANEL SIGN (30" X 30") AND FLAGS
---	2 EA	FURNISH AND INSTALL R10-12 SIGN (36" X 42")
---	2 EA	MAST ARM MOUNT
---	2 EA	FURNISH AND INSTALL D3-2 DUAL FACED SIGN "CAMERON GROVE BLVD.", (VAR. X 16")
---	2 EA	MAST ARM MOUNT
---	2 EA	FURNISH AND INSTALL M95-1 SIGN (72" X 24")
---	280 LF	MAST ARM MOUNT
---		REMOVE AND RE-INSTALL EXISTING INTERCONNECT CABLE

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL OTHERS SHALL BECOME THE PROPERTY OF THE CONTRACTOR



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION
MD 214 AT CAMERON GROVE BOULEVARD

DRAWN BY: <u>M.HOWELL</u>	F.A.P. NO. <u>BW996M82</u>	TS NO. <u>4205</u>	SHEET NO. <u>3</u> OF <u>3</u>
CHECKED BY: <u>J.ZAYDEL</u>	S.H.A. NO.		
SCALE: <u>NONE</u>	COUNTY: <u>PRINCE GEORGE'S</u>	T.I.M.S. NO. <u>E032</u>	
DATE: <u>6-7-02</u>	LOG MILE: <u>16021407.90</u>		

TRAFFIC CONCEPTS, INC.

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